

OIPE

#3

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/803,670 DATE: 03/27/2001
TIME: 09:30:18

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\03272001\I803670.raw

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4 <110> APPLICANT: SHAO, Wei et al.
6 <120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
7 NUCLEIC ACID-MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
8 AND USES THEREOF
10 <130> FILE REFERENCE: CL00524
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C--> 12 <141> CURRENT FILING DATE: 2001-03-12
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17 <211> LENGTH: 3435
18 <212> TYPE: DNA
19 <213> ORGANISM: Human
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25 ccagcaccct ggggtctcgc tgagatgctg aaggccaggc tgtggtgcag ctgctcgtgc 240
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53 gtcggtgagg gagccctgc ccagggcgag gacctgggcc cgggttagcac cagggtgcy 1920
54 ctggtgccc cagcggccgg cttccacaca gtggtcatcg actgcgccc gctgctgttc 1980

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55 ctagacgcag cgggtgtgag cacgctgcag gacctgcgcc gagactacgg ggccctgggc 2040
56 atcagcctgc tgctagcctg ctgcagcccg cctgtgagag acattctgag cagaggaggc 2100
57 ttctctgggg agggcccggg ggacacggct gaggaggagc agctgttcct cagtgtgcac 2160
58 gatgccgtgc agacagcacg agcccgccac agggagctgg aggccaccga tgtccatctg 2220
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63 gctggctggg ccccaatgca cgtccctca gctcagaagg gatgggctg acctgacgct 2520
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81 <210> SEQ ID NO: 2

82 <211> LENGTH: 701

83 <212> TYPE: PRT

84 <213> ORGANISM: Human

86 <400> SEQUENCE: 2

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90 20 25 30
91 Ala Arg Leu Trp Cys Ser Cys Ser Val Leu Cys Val Arg Ala
92 35 40 45
93 Leu Val Gln Asp Leu Leu Pro Ala Thr Arg Trp Leu Arg Gln Tyr Arg
94 50 55 60
95 Pro Arg Glu Tyr Leu Ala Gly Asp Val Met Ser Gly Leu Val Ile Gly
96 65 70 75 80
97 Ile Ile Leu Val Pro Gln Ala Ile Ala Tyr Ser Leu Leu Ala Gly Leu
98 85 90 95
99 Gln Pro Ile Tyr Ser Leu Tyr Thr Ser Phe Phe Ala Asn Leu Ile Tyr
100 100 105 110
101 Phe Leu Met Gly Thr Ser Arg His Val Ser Val Gly Ile Phe Ser Leu
102 115 120 125
103 Leu Cys Leu Met Val Gly Gln Val Val Asp Arg Glu Leu Gln Leu Ala
104 130 135 140
105 Gly Phe Asp Pro Ser Gln Asp Gly Leu Gln Pro Gly Ala Asn Ser Ser

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106 145          150          155          160
107 Thr Leu Asn Gly Ser Ala Ala Met Leu Asp Cys Gly Arg Asp Cys Tyr
108                      165          170          175
109 Ala Ile Arg Val Ala Thr Ala Leu Thr Leu Met Thr Gly Leu Tyr Gln
110                      180          185          190
111 Val Leu Met Gly Val Leu Arg Leu Gly Phe Val Ser Ala Tyr Leu Ser
112                      195          200          205
113 Gln Pro Leu Leu Asp Gly Phe Ala Met Gly Ala Ser Val Thr Ile Leu
114                      210          215          220
115 Thr Ser Gln Leu Lys His Leu Leu Gly Val Arg Ile Pro Arg His Gln
116 225          230          235          240
117 Gly Pro Gly Met Val Val Leu Thr Trp Leu Ser Leu Leu Arg Gly Ala
118                      245          250          255
119 Gly Gln Ala Asn Val Cys Asp Val Val Thr Ser Thr Val Cys Leu Ala
120                      260          265          270
121 Val Leu Leu Ala Ala Lys Glu Leu Ser Asp Arg Tyr Arg His Arg Leu
122                      275          280          285
123 Arg Val Pro Leu Pro Thr Glu Leu Leu Val Ile Val Val Ala Thr Leu
124                      290          295          300
125 Val Ser His Phe Gly Gln Leu His Lys Arg Phe Gly Ser Ser Val Ala
126 305          310          315          320
127 Gly Asp Ile Pro Thr Gly Phe Met Pro Pro Gln Val Pro Glu Pro Arg
128                      325          330          335
129 Leu Met Gln Arg Val Ala Leu Asp Ala Val Ala Leu Ala Leu Val Ala
130                      340          345          350
131 Ala Ala Phe Ser Ile Ser Leu Ala Glu Met Phe Ala Arg Ser His Gly
132                      355          360          365
133 Tyr Ser Val Arg Ala Asn Gln Glu Leu Leu Ala Val Gly Cys Cys Asn
134                      370          375          380
135 Val Leu Pro Ala Phe Leu His Cys Phe Ala Thr Ser Ala Ala Leu Ala
136 385          390          395          400
137 Lys Ser Leu Val Lys Thr Ala Thr Gly Cys Arg Thr Gln Leu Ser Ser
138                      405          410          415
139 Val Val Ser Ala Thr Val Val Leu Leu Val Leu Leu Ala Leu Ala Pro
140                      420          425          430
141 Leu Phe His Asp Leu Gln Arg Ser Val Leu Ala Cys Val Ile Val Val
142                      435          440          445
143 Ser Leu Arg Gly Ala Leu Arg Lys Val Trp Asp Leu Pro Arg Leu Trp
144                      450          455          460
145 Arg Met Ser Pro Ala Asp Ala Leu Val Trp Ala Gly Thr Ala Ala Thr
146 465          470          475          480
147 Cys Met Leu Val Ser Thr Glu Ala Gly Leu Leu Ala Gly Val Ile Leu
148                      485          490          495
149 Ser Leu Leu Ser Leu Ala Gly Arg Thr Gln Arg Pro Arg Thr Ala Leu
150                      500          505          510
151 Leu Ala Arg Ile Gly Asp Thr Ala Phe Tyr Glu Asp Ala Thr Glu Phe
152                      515          520          525
153 Glu Gly Leu Val Pro Glu Pro Gly Val Arg Val Phe Arg Phe Gly Gly
154                      530          535          540

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155 Pro Leu Tyr Tyr Ala Asn Lys Asp Phe Phe Leu Gln Ser Leu Tyr Ser
156 545 550 555 560
157 Leu Thr Gly Leu Asp Ala Gly Cys Met Ala Ala Arg Arg Lys Glu Gly
158 565 570 575
159 Gly Ser Glu Thr Gly Val Gly Glu Gly Gly Pro Ala Gln Gly Glu Asp
160 580 585 590
161 Leu Gly Pro Val Ser Thr Arg Ala Ala Leu Val Pro Ala Ala Ala Gly
162 595 600 605
163 Phe His Thr Val Val Ile Asp Cys Ala Pro Leu Leu Phe Leu Asp Ala
164 610 615 620
165 Ala Gly Val Ser Thr Leu Gln Asp Leu Arg Arg Asp Tyr Gly Ala Leu
166 625 630 635 640
167 Gly Ile Ser Leu Leu Leu Ala Cys Cys Ser Pro Pro Val Arg Asp Ile
168 645 650 655
169 Leu Ser Arg Gly Gly Phe Leu Gly Glu Gly Pro Gly Asp Thr Ala Glu
170 660 665 670
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177 <210> SEQ ID NO: 3

178 <211> LENGTH: 8868

179 <212> TYPE: DNA

180 <213> ORGANISM: Human

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185 <223> OTHER INFORMATION: n = 'A,T,C or G

187 <400> SEQUENCE: 3

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192 ccgtctcaaa aaaaaaaaaa ttagccgggc gcggtggcgg gcgctgtag tccagctac 300
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Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\03272001\I803670.raw

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
